

REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the pending application. The Office Action dated February 13, 2008, has been received and its contents carefully reviewed.

Claims 1~24 are rejected by the Examiner.

With this response, claims 1, 9, 15 and 18~22 have been amended, and claims 3, 5, 12 and 17 have been canceled without prejudice or disclaimer. No new material has been added. Accordingly, claims 1, 2, 4, 6~11, 13~16 and 18~24 are currently pending in this application. Reexamination and reconsideration of the pending claims are respectfully requested.

In the Office Action, claims 1, 3~15 and 17~24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent JP 2000-180808 (hereinafter "Nishigaki") in view of United States Patent No. 6,224,459 (hereinafter "Stocker"). Claims 2 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishigaki in view of Stocker and in further view of United States Patent No. 6,428,390 (hereinafter "Clark").

Applicant respectfully submits that claims 1, 4, 6~11, 13~15 and 18~24 are patentable over Nishigaki in view of Stocker.

On page 3 of the Office Action, the Examiner acknowledges that "Nishigaki fails to disclose a second imaging system as proposed. Stocker, however, teaches a combination of first and second imaging system to improve centering and grinding the substrate (Column 8 line 46 ~ Column 9 line 32)."

Applicants submit that Stocker does not disclose at least "a first imaging system for producing images of a ground surface of the upper marginal portion of the unit liquid crystal display panel; and a second imaging system for producing images of a ground surface of the lower marginal portion of the unit liquid crystal display panel, wherein the upper marginal portion of the unit liquid crystal display panel is grinded more as compared to the lower marginal portion of the unit liquid crystal display panel and the first and the second imaging systems include a charge coupled device (CCD)" as recited in claim 1. Accordingly, Stocker does not cure the deficiency in the teachings of Nishigaki regarding the combined features of claim 1.

That is, in the present invention the upper marginal portion of the unit liquid crystal display panel 100, where the shorting bar may be formed, may be ground more as compared to the lower marginal portion of the unit liquid crystal display panel 100. Accordingly, the ground width W11 of the upper marginal portion of the unit liquid crystal display panel 100 may be wider than the ground width W12 of the lower marginal portion of the unit liquid crystal display panel 100. Thus, the operator may detect the ground amounts both of the upper and lower marginal portions of the unit liquid crystal display panel 100 from the images C11 and C12 produced using the first and second imaging systems 120 and 130.

Applicants respectfully submit that Nishigaki and Stocker, analyzed singly or in combination do not teach or suggest the combined features of claim 1, and that claim 1 and claims 4, 6~8 and 24 depending from claim 1 are each allowable over Nishigaki and Stocker.

Similarly, Applicants submit that Stocker does not disclose at least “an imaging system for producing images of ground upper and lower marginal portions of the liquid crystal display panel along the upper and lower marginal portions of the liquid crystal display panel respectively using the first charge coupled device (CCD) and second charge coupled device, wherein the upper marginal portion of the liquid crystal display panel is grinded more as compared to the lower marginal portion of the liquid crystal display panel” as recited in claim 9. Accordingly, Stocker does not cure the deficiency in the teachings of Nishigaki regarding the combined features of claim 9. Applicants respectfully submit that Nishigaki and Stocker, analyzed singly or in combination do not teach or suggest the combined features of claim 9, and that claim 9 and claims 10, 11, 13 and 14 depending from claim 9 are each allowable over Nishigaki and Stocker.

Moreover, Applicants submit that Stocker does not disclose at least “grinding upper and lower marginal surfaces of a unit liquid crystal display panel using a grinding unit to include a sloped edge portion, wherein the unit liquid crystal display panel includes a thin film transistor array substrate and a color filter substrate; producing first images of the ground surface of the upper marginal surface of the unit liquid crystal display panel using a first imaging system; and producing second images of the ground surface of the lower marginal surface of the unit liquid crystal display panel using a second imaging system, wherein the upper marginal surface of the unit liquid crystal display panel is grinded more as compared to the lower marginal surface of the unit liquid crystal display panel” as recited in claim 15. Accordingly, Stocker does not cure the deficiency in the teachings of Nishigaki regarding the combined features of claim 15. Applicants

respectfully submit that Nishigaki and Stocker, analyzed singly or in combination do not teach or suggest the combined features of claim 15, and that claim 15 and claims 18~13 depending from claim 15 are each allowable over Nishigaki and Stocker.

With respect to the rejection of claims 2 and 16 based upon the addition of Clark to the combination of Nishigaki and Stocker. Applicants submit Clark fails to remedy the above-identified deficient teachings of Nishigaki and Stocker. As such, no combination of Nishigaki, Stocker and Clark teaches the combined features recited in the claims of the present application. As such, claim 1 and its dependent claims 2, and claims 15 and its dependent claim 16 are allowable over any combination of Nishigaki, Stocker and Clark.

Reconsideration and withdrawal of the rejections are respectfully requested.

Applicants believe the foregoing amendments and remarks place the application in condition for allowance and early, favorable action is respectfully solicited.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to discuss the steps necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911.

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Respectfully submitted,

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